ATTY. DKT. NO. 5659-02000/TH194

SERIAL NO. 09/841,433

GROUP: 1764

APPLICANT: Wellington, et al.

0210 027

FILING DATE: April 24, 2001

	Bitotts 11	W.	S. PATENT	DOCUMENTS			
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
04	Cl	1,269,747	6/1918	Rogers		7	E0-
	C2	1,457,479	6/1923	Wolcott		M	EIVE
	C3	1,634,236	6/1927	Ranney		To	06200
	C4	2,630,307	3/1953	Martin		. C	1/UD
	C5	2,685,930	8/1954	Albaugh	_		. 00
	C6	2,703,621	3/1955	Ford			
	C7	2,771,954	11/1956	Jenks et al.			
	C8	2,793,696	5/1957	Morse			
	C9	2,890,754	6/1959	Hoffstrom et al.			
	C10	2,890,755	6/1959	Eurenius et al.			
	C11	2,906,340	9/1959	Herzog			
	C12	2,932,352	4/1960	Stegemeier			
	C13	2,958,519	11/1960	Hurley	,		
	C14	3,010,513	11/1961	Gerner		RECE	IVED
	C15	3,010,516	11/1961	Schleicher		MAY 0	7 2002
	C16	3,036,632	5/1962	Koch et al.		ha	
	C17	3,044,545	7/1962	Tooke	G	HOU	P 3600
	C18	3,061,009	10/1962	Shirley			
	C19	3,062,282	11/1962	Schleicher		,	
	C20	3,084,919	4/1963	Slater			
	C21	3,113,619	12/1963	Reichle			
	C22	3,116,792	1/1964	Purre			
	C23	3,120,264	2/1964	Barron			
	C24	3,127,935	4/1964	Poettmann et al			
	C25	3,127,936	4/1964	Eurenius			
	C26	3,132,692	5/1964	Marx et al.			
	C27	3,205,944	9/1965	Walton			
	C28	3,233,668	2/1966	Hamilton et al.			
	C29	3,273,640	9/1966	Huntington			
()C	930	3,275,076	9/1966	Sharp			

**EXAMINER:** 

DATE CONSIDERED: 6752

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

MAY 0 3 2002 RADEM

ATTY. DKT. NO. 5659-02000/TH194

APPLICANT: Wellington, et al.

**GROUP: 1764** 

SERIAL NO. 09/841,433

FILING DATE: April 24, 2001

U.S.	PATENT	DOCUN	MENTS
------	--------	-------	-------

EXAM. NITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF
ou	C31	3,294,167	12/1966	Vogel			MAY 2002
	C32	3,352,355	11/1967	Putman			MAY
	C33	3,379,248	4/1968	Strange			C _ 6 2002
7	C34	3,605,890	9/1971	Holm			740
	C35	3,617,471	11/1971	Schlinger et al.			
	C36	3,661,423	5/1972	Garrett	:		
	C37	3,770,398	11/1973	Abraham et al.			
	C38	3,882,941	5/1975	Pelofsky			
	C39	3,948,319	4/1976	Pritchett			
	C40	3,954,140	5/1976	Hendrick			
	C41	3,986,349	10/1976	Egan			
	C42	3,999,607	12/1976	Pennington et al.		REC	EIVED
	C43	4,008,762	2/1977	Fisher et al.		MAY	0 7 2002
	C44	4,019,575	4/1977	Pisio et al.			
	C45	4,026,357	5/1977	Redford		GROU	<u> </u>
	C46	4,049,053	9/1977	Fisher et al.			
	C47	4,057,293	11/1977	Garrett		<u> </u>	
	C48	4,067,390	1/1978	Camacho et al.			
	C49	4,069,868	1/1978	Terry			
	C50	4,084,637	4/1978	Todd			
	C51	4,114,688	9/1978	Terry			
	C52	4,144,935	3/1979	Bridges et al.			
	C53	4,183,405	1/1980	Magnie			
	C54	4,228,854	10/1980	Sacuta			
	C55	4,243,101	1/1981	Grupping			
	C56	4,277,416	7/1981	Grant			
l	C57	4,306,621	12/1981	Boyd et al.			
<del></del>	C58	4,324,292	4/1982	Jacobs et al.			
	C59	4,344,483	8/1982	Fisher et al.			

**EXAMINER:** 

DATE CONSIDERED:

EXAMINER: Initial incitation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

ATTY. DKT. NO. 5659-02000/TH194

MAY 0 3 2002

APPLICANT: Wellington, et al.

GROUP: 1764

SERIAL NO. 09/841,433

U.S.	PAT	ENT	DOC	IJΝ	<b>MENTS</b>

(Use several	sheets if	necessary) RADEMAR	FILING	DATE: April 24, 2001 DOCUMENTS	L		
	bre I				OT A CC	CLTD	ET DIO DAME
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
W	C60	4,353,418	10/1982	Hoekstra et al.			
	C61	4,384,613	5/1983	Owen et al.			CCE
	C62	4,396,062	8/1983	Iskander		<b>&gt;</b> "	FCEIVEL
	C63	4,397,732	8/1983	Hoover et al.		10	7 2002
	C64	4,444,255	4/1984	Geoffrey et al.			100
	C65	4,448,251	5/1984	Stine			
	C66	4,448,252	5/1984	Stoddard et al.			·
	C67	4,457,365	7/1984	Kasevich et al.			
	C68	4,476,927	10/1984	Riggs			
	C69	4,485,869	12/1984	Sresty et al.			
	C70	4,524,826	6/1985	Savage			
	C71	4,549,396	10/1985	Garwood et al.	R	ECE	VED,
	C72	4,573,530	3/1986	Audeh et al.	1 1		
	C73	4,576,231	3/1986	Dowling et al.		MAY 0	2002
	C74	4,592,423	6/1986	Savage et al.	GF	ROUF	3600
	C75	4,608,818	9/1986	Goebel et al.			
	C76	4,637,464	1/1987	Forgac et al.			
	C77	4,651,825	3/1987	Wilson			
	C78	4,662,438	5/1987	Taflove et al.			
	C79	4,662,439	5/1987	Puri			
	C80	4,662,443	5/1987	Puri et al.		-	
	C81	4,691,771	9/1987	Ware et al.			
	C82	4,704,514	11/1987	Van Edmond et al.			
	C83	4,772,634	9/1988	Farooque			
	C84	4,787,452	11/1988	Jennings, Jr.			
	C85	4,817,711	4/1989	Jeambey			
	C86	4,818,370	4/1989	Gregoli et al.			
	C87	4,928,765	5/1990	Nielson			
<b>†</b>	C88	5,064,006	11/1991	Waters et al.			
A	C89	5,082,054	1/1992	Kiamanesh	-		

**EXAMINER:** 

DATE CONSIDERED: 6/7/0

EXAMINER: Initial # citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

ATTY. DKT. NO. 5659-02000/TH194

SERIAL NO. 09/841,433

A BA	U.S.	PATENT	<b>DOCUMENTS</b>
------	------	--------	------------------

For Applican		mation MAY 0 3 2002	APPLICA FILING I	ANT: Wellington, et al.	GROUP: 1764		
Disclosure St (Use several)		necessary)	ETI ING I	DATE: April 24, 2001			
(Use several)	SHEELS H	RADEMAR	U.S. PATENT	DOCUMENTS			
T37.43.6	REF.			NAME	CT A CC	SUB	EII DIG DAME TO
EXAM. INITIALS	DES.	DOCUMENT NUMBER	DATE	NAIVIE	CLASS	CLASS	FILING DATE IF APPROPRIATE
pe	C90	5,082,055	1/1992	Hemsath			
	C91	5,217,076	6/1993	Masek			FCA.
	C92	5,261,490	11/1993	Ebinuma		M	VO
	C93	5,285,846	2/1994	Mohn		C	6 2000
	C94	5,289,882	3/1994	Moore			700
	C95	5,411,104	5/1995	Stanley			90
	C96	5,632,336	5/1997	Notz et al.			
	C97	5,713,415	2/1998	Bridges			
	C98	6,328,104	12/2001	Graue			
	D1	3,149,670	9/1964	Grant	F	ECE	IVED!
	D2	3,380,913	4/1968	Henderson			
	D3	3,794,116	2/1974	Higgins		MAY 0	7 2002
	D4	4,197,911	4/1980	Anada	G	<b>TUU</b>	P 3600
	D5	4,412,124	10/1983	Kobayashi			
d	D8	3,316,962	5/1967	Lange			

## FOREIGN PATENT DOCUMENTS

EXAN		REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS		TRANSLATI
INITI	<u>ALS</u>	DES.					CLASS	ON YES/NO
	7	C99	2,015,460	10/1991	CA			
	1	C100	940558 A1	9/1999	EP			
		C101	01/81723 A1	11/2001	WO			
		C102	01/81505 A1	11/2001	wo			
	l	D6	1,165,361	4/1984	CA			
	V	D7	1,168,283	5/1994	CA			

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

N		Appalachian Coals: Potential Reservoirs for Sequestering Carbon Dioxide Emissions from Power Plants While
		Enhancing CBM Production; C.W. Byer, et al., Proceedings of the International Coalbed Methane Symposium.
Q.		The Pros and Cons of Carbon Dioxide Dumping Global Warming Concerns Have Stimulated a Search for Carbon Sequestration Technologies; C. Hanisch, Environmental Science and Technology, American Chemical Society, Easton,
12	C104	•
		Pilot Test Demonstrates How Carbon Dioxide Enhances Coal Bed Methane Recovery, Lanny Schoeling and Michael

2105 McGovern, Petroleum Technology Digest, September 2000, p. 14-15.

**EXAMINER:** 

DATE CONSIDERED: C

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

MAY 0 3 200

ATTY. DKT. NO. 5659-02000/TH194

APPLICANT: Wellington, et al.

**GROUP: 1764** 

SERIAL NO. 09/841,433

FILING DATE: April 24, 2001

OTHER ART (Includin	g Author, Title, Date	, Pertinent Pages, Etc.)
---------------------	-----------------------	--------------------------

0	L	In Situ Measurement of Some Thermoporoelastic Parameters of a Granite, Berchenko et al., Poromechanics, A Tribute to Maurice Biot, 1998, p. 545-550.
1		Conversion characteristics of selected Canadian coals based on hydrogenation and pyrolysis experiments, W. Kalkreuth, C. Roy, and M. Steller. Geological Survey of Canada, Paper 89-8, 1989, pages 108-114, XP001014535
	ען ן	Passey et al., US Patent Application Publication 2001/0049342 A1, December 6, 2001.
8	D10	Tar and Pitch, G. Collin and H. Hoeke. Ullmann's Encyclopedia of Industrial Chemistry, Vol. A 26, 1995, p. 91-127.

RECEIVED TC 1700

RECEIVED MAY 0 7 2002 **GROUP 3600** 

**EXAMINER:** 

DATE CONSIDERED: 6/7/8

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner. Form PTO-1449 (modified)
List of Fatents and Publications
For Applicant's Information
Disclosure Statement

(Use several sheets if necessary)

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

SERIAL NO. 09/841,433

GROUP: 1764

FILING DATE: April 24, 2001

WANE.	DEC.	DOCUMENT NUMBER	ADEAN DATE	NAME	CLASS	SUB	FILING DATE IF
XAM. VITIALS	REF. DES.	DUCUMENT NUMBER	DATE	IAMINE	CLASS	CLASS	APPROPRIATE
JU	Al	760,304	05/1904	Butler			
1	A2	1,342,741	06/1920	Day			
	A3	1,510,655	10/1924	Clark			
	A4	1,666,488	02/1927	Crawshaw			
	A5	1,913,395	11/1929	Karrick			
	A6	2,423,674	07/1947	Agren			
	A7	2,444,755	07/1948	Steffen	R	ECE	IVED
	A8	2,466,945	02/1946	Greene		DEC 2	2001
	A9	2,472,445	06/1949	Sprong			
	A10	2,484,063	10/1949	Ackley	G	ROUF	3600
	A11	2,497,868	02/1950	Dalin			
	A12	2,548,360	04/1951	Germain			
	A13	2,593,477	04/1952	Newman et al.			
	A14	2,595,979	05/1952	Pevere et al.			
	A15	2,630,306	01/1952	Evans			
	A16	2,634,961	04/1953	Ljungstrom		ECE	IVED
	A17	2,642,943	06/1953	Smith et al.			_
	A18	2,670,802	03/1954	Ackley		DEC 2	2001
	A19	2,695,163	11/1954	Pearce et al.		TC 1	700
	A20	2,732,195	01-24-56	Ljungstrom			
	A21	2,734,579	02-14-56	Elkins			
	A22	2,780,449	02-05-57	Fisher et al.			
	A23	2,777,679	01/1957	Ljungstrom			
	A24	2,780,450	02/1957	Ljungstrom			
	A25	2,786,660	03/1957	Alleman			
	A26	2,789,805	04/1957	Ljungstrom			
	A27	2,804,149	08/1957	Kile			
	A28	2,841,375	07/1958	Salomonsson			
	A29	2,902,270	09/1959	Salomonsson et al.			
A/	A20	2,906,337	09/1959	Henning			

**EXAMINER:** 

DATE CONSIDERED: 6/7/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

DE 2 1 2011 8 33

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

FILING DATE: April 24, 2001

SERIAL NO. 09/841,433

GROUP: 1764

U.S. PATENT DOCUMENTS								
XAM. NITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
9	A31	2,914,309	11/1959	Salomonsson				
1	A32	2,923,535	02/1960	Ljungstrom				
	A33	2,939,689	06/1960	Ljungstrom				
	A34	2,954,826	10/1960	Sievers				
	A35	2,974,937	03/1961	Kiel				
	A36	2,994,376	08/1961	Crawford et al.				
	A37	2,998,457	08/1961	Paulsen				
	A38	3,004,603	10/1961	Rogers et al.				
	A39	3,007,521	11/1961	Trantham et al.				
	A40	3,095,031	06/1963	Eurenius et al.				
	A41	3,105,545	10/1963	Prats et al.		REC		
	A42	3,106,244	10/1963	Parker			EIVED	
	A43	3,110,345	11/1963	Reed et al.		DEC 2	7 2001	
	A44	3,113,623	12/1963	Krueger	G	ROU	<del>2600 - 3</del>	
	A45	3,114,417	12/1963	McCarthy			0000	
	A46	3,131,763	05/1964	Kunetka et al.				
Ī	A47	3,139,928	07/1964	Broussard				
	A48	3,142,336	07/1964	Doscher	RE	CEI	VED	
	A49	3,149,672	10/1964	Orkiszewski et al.		U 2 6 2	001	
	A50	3,163,745	12/1964	Boston				
	A51	3,164,207	01/1965	Thessen et al.	T	C 17	00	
	A52	3,182,721	05/1965	Hardy				
	A53	3,183,675	05/1965	Schroeder				
	A54	3,191,679	06/1965	Miller				
	A55	3,205,946	10/1965	Prats et al.				
	A56	3,207,220	10/1965	Williams				
	A57	3,208,531	10/1965	Tamplen				
n	A58	3,209,825	10/1965	Alexander et al.				

**EXAMINER:** 

DATE CONSIDERED: 670

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

SERIAL NO. 09/841,433

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

	US: PATENT DOCUMENTS								
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
de	A59	3,237,689	03/1966	Justheim					
(	A60	3,241,611	03/1966	Dougan					
	A61	3,250,327	05/1966	Crider					
	A62	3,267,680	08/1966	Schlumberger					
	A63	3,284,281	11/1966	Thomas			`		
	A64	3,338,306	08/1967	Cook					
	A65	3,528,501	09/1970	Parker					
	A66	3,595,082	07/1971	Miller et al.					
	A67	3,973,628	08/1976	Colgate					
	A68	3,992,148	11/1975	Child					
	A69	3,993,132	11/1977	Garrett	חבי	CEIV	ED		
	A70	4,016,239	04/1977	Fenton	DEC	2 9 20			
	A71	4,076,761	02/1978	Chang et al.	TO	4			
	A72	4,089,372	05/1978	Terry	10	170	<b>D</b>		
	A73	4,093,026	06/1978	Ridley					
	A74	4,096,163	06/1978	Chang, et al.					
	A75	4,130,575	12/1978	Jorn et al.	RE	CEI	/ED		
	A76	4,133,825	01/1979	Stroud et al.	į.	1			
	A77	4,138,442	02/1979	Chang et al.	שני	<del>C 2 7 2</del>	UUT		
	A78	4,186,801	02/1980	Madgavkar et al.	GRC	DUP (	<b>3600</b>		
	A79	4,250,230	02/1981	Terry					
	A80	4,250,962	02/1981	Madgavkar et al.					
	A81	4,273,188	06/1981	Vogel et al.					
	A82	4,274,487	06/1981	Hollingsworth et al.					
	A83	4,299,086	11/1981	Madgavkar et al.					
	A84	4,299,285	11/1981	Tsai et al.					
	A85	4,359,687	11/1982	Vinegar et al.					
	A86	4,363,361	12/1982	Madgavkar et al.					
	A87	4,366,668	01/1983	Madgavkar et al.					
0	A88	4,378,048	03/1983	Madgavkar et al.					

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if attation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

67/62

DEC 2 1 2007

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

SERIAL NO. 09/841,433

GROUP: 1764

FILING DATE: April 24, 2001

U.S.	PATENT	DOCUMENTS	

		TRADEMAN					I
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
or	A89	4,381,641	05/1983	Madgavkar et al.			
	A90	4,398,151	08/1983	Vinegar et al.			
	A91	4,407,973	10/1983	van Dijk et al.			
	A92	4,409,090	10/1983	Hanson et al.			
	A93	4,444,258	04/1984	Kalmar			
	A94	4,501,445	02/1985	Gregoli			
	A95	4,530,401	07/1985	Hartman et al.			
	A96	4,540,882	10/1985	Vinegar et al.			
	A97	4,542,648	10/1985	Vinegar et al.		RE	CEIVED
	A98	4,570,715	02/1986	Van Meurs et al.		DE	C 2 7 2001
	A99	4,571,491	02/1986	Vinegar et al.			UP 3600
	A100	4,572,299	02/1986	Vanegmond et al.		GH	JUI 0000
	A101	4,583,046	04/1986	Vinegar et al.			
	A102	4,583,242	04/1986	Vinegar et al.			
	A103	4,594,468	06/1986	Minderhoud	R	ECE	NED
	A104	4,597,441	07/1986	Ware et al.		DEU 26	2001
	A105	4,605,680	08/1986	Beuther et al.			
	A106	4,613,754	09/1986	Vinegar et al.		TC 1	700
	A107	4,616,705	10/1986	Stegemeier et al.	_		
	A108	4,635,197	01/1987	Vinegar et al.			
	A109	4,640,352	02/1987	Vanmeurs et al.			
	A110	4,644,283	02/1987	Vinegar et al.			
	A111	4,658,215	04/1987	Vinegar et al.			
	A112	4,663,711	05/1987	Vinegar et al.			
	A113	4,671,102	06/1987	Vinegar et al.			
	A114	4,716,960	01/1988	Eastlund et al.			
	A115	4,719,423	01/1988	Vinegar et al.			
- (	A116	4,728,892	03/1988	Vinegar et al.			
	A117	4,730,162	03/1988	Vinegar et al.			
N.	A118	4,743,854	05/1988	Vinegar et al.			

EXAMINER:

DATE CONSIDERED: 6 7 5

EXAMINER: Initial if oration considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

GROUP: 1764

SERIAL NO. 09/841,433

FILING DATE: April 24, 2001

IJ.	S.	PA	TEN	1T	D	C	UM	1Er	VTS	

337.4.3.6	IDEE I	DOCUMENT CAMERINA	DATE	NAME	CLASS	SUB	FILING DATE IF
EXAM. NITIALS	REF. DES.	DOCUMENT REPRESENT	DATE	NAME	CLASS	CLASS	APPROPRIATE
DZ	A119	4,762,425	08/1988	Shakkottai et al.			
(	A120	4,769,602	09/1988	Vinegar et al.			
1	A121	4,769,606	09/1988	Vinegar et al.			
	A122	4,793,656	12/1988	Siddoway et al.			
	A123	4,827,761	05/1989	Vinegar et al.			
-1	A124	4,848,924	07/1989	Nuspl et al.			
	A125	4,856,341	08/1989	Vinegar et al.			
	A126	4,860,544	08/1989	Krieg et al.			
	A127	4,866,983	09/1989	Vinegar et al.			
	A128	4,884,455	12/1989	Vinegar et al.			
	A129	4,886,118	12/1989	Van Meurs et al.			EIVED
	A130	4,927,857	05/1990	McShea III et al.		DEC	2 7 2001
	A131	4,974,425	12/1990	Krieg et al.		BOI	JP 3600
	A132	4,983,319	01/1991	Gregoli et al.			
	A133	4,984,594	01/1991	Vinegar et al.			
	A134	4,987,368	01/1991	Vinegar			
	A135	4,994,093	02/1991	Wetzel et al.		DE6	
	A136	5,014,788	05/1991	Puri et al.		HEC	EIVED
	A137	5,046,559	10/1991	Glandt		DEC	26 2001
	A138	5,050,386	09/1991	Krieg et al.		TO	4700
	A139	5,060,287	10/1991	Van Egmond		10	1700
	A140	5,060,726	10/1991	Glandt et al.			
	A141	5,065,818	11/1991	Van Egmond			
	A142	5,168,927	12/1992	Stegemeier et al.			
	A143	5,189,283	02/1993	Carl, Jr. et al.			
	A144	5,190,405	03/1993	Vinegar et al.			
	A145	5,207,273	05/1993	Cates et al.			
	A146	5,211,230	05/1993	Ostapovich et al.			
/	A147	5,226,961	07/1993	Nahm et al.			
0	A148	5,229,583	07/1993	van Egmond et al.			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

DATE CONSIDERED:

**EXAMINER:** 

ATTY. DKT. NO. 5659-02000/TH1944

DEC 2 1 2017

APPLICANT: Wellington, et al.

GROUP: 1764

SERIAL NO. 09/841,433

FILING DATE: April 24, 2001

PATENT DOCUMENTS

		TRADEMA	TU.S. PATENT	DOCUMENTS			
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
Or.	A149	5,236,039	08/1993	Edelstein et al.			
i	A150	5,255,742	10/1993	Mikus			
	A151	5,297,626	03/1994	Vinegar et al.			
	A152	5,306,640	04/1994	Vinegar et al.			
	A153	5,318,116	06/1194	Vinegar et al.			
	A154	5,339,897	08/1994	Leaute			
	A155	5,340,467	08/1994	Gregoli et al.		ļ	<u> </u>
	A156	5,349,859	09/1994	Kleppe			
	A157	5,388,640	02/1995	Puri et al.			
	A158	5,388,641	02/1995	Yee et al.			RECEN
	A159	5,388,642	02/1995	Puri et al.			RECEIVE DEC 2 7 200
	A160	5,388,643	02/1995	Yee et al.			DEC 2 7 200
	A161	5,388,645	02/1995	Puri et al.			ROUP 36
	A162	5,391,291	02/1995	Winquist et al.			3. 30
	A163	5,392,854	02/1995	Vinegar et al.			
-	A164	5,404,952	04/1995	Vinegar et al.			
	A165	5,409,071	04/1995	Wellington et al.			
	A166	5,411,089	05/1995	Vinegar et al.			CEIVED
	A167	5,415,231	05/1995	Northrop et al.		R	OEI WILL
	A168	5,431,224	07/1995	Laali		- [	した 発 間 2001
	A169	5,433,271	07/1995	Vinegar et al.			-0 1700
	A170	5,437,506	08/1995	Gray			10 1.
	A171	5,439,054	08/1995	Chaback et al.			
	A172	5,454,666	10/1995	Chaback et al.	-		
	A173	5,497,087	03/1996	Vinegar et al.			
	A174	5,498,960	03/1996	Vinegar et al.			
	A175	5,525,322	06/1996	Willms			
	A176	5,553,189	09/1996	Stegemeier et al.			
	A177	5,554,453	09/1996	Steinfeld et al.			
0	A178	5,566,756	10/1996	Chaback et al.			

**EXAMINER:** 

DATE CONSIDERED: 6/7/0

EXAMINER: Initial is citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

GROUP: 1764

SERIAL NO. 09/841,433

FILING DATE: April 24, 2001 PATENT DOCUMENTS

DEC 2 1 2000

-		TRADEMA	U.S. PATENT	DOCUMENTS			
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
8	A179	5,624,188	04/1997	West			
(	A180	5,656,239	08/1997	Stegemeier et al.			
	A181	5,676,212	10/1997	Kuckes			
	A182	5,862,858	01/1999	Wellington et al.			
	A183	5,899,269	05/1999	Wellington et al.			
	A184	5,968,349	10/1999	Duyvesteyn et al.			
	A185	5,984,010	11/1999	Elias et al.			
	A186	5,985,138	11/1999	Humphreys		1	
	A187	5,997,214	12/1999	de Rouffignac et al.			<u>.</u>
	A188	6,016,867	01/2000	Gregoli et al.		<u> </u>	
	A189	6,016,868	01/2000	Gregoli et al.		R	CEIVED
	A190	6,019,172	02/2000	Wellington et al.			EC 2 7 2001
	A191	6,023,554	02/2000	Vinegar et al.			<b>OUP 3600</b>
	A192	6,056,057	05/2000	Vinegar et al.		Gn	OUP 3000
	A193	6,079,499	06/2000	Mikus et al.			
	A194	6,085,512	07/2000	Agee et al.			
	A195	6,094,048	07/2000	Vinegar et al.		DEC	EIVED
	A196	6,102,122	08/2000	de Rouffignac			
	A197	6,102,622	08/2000	Vinegar et al.		DEC	2 6 2001
	A198	6,152,987	11/2000	Ma et al.		TO	1700
	A199	6,172,124	01/2001	Wolflick et al.			1100
	A200	6,173,775 B1	01/2001	Elias et al.			
	A201	6,187,465	02/2001	Galloway			
	A202	Re. 30,738	09/1981	Bridges et al.			
V	A203	Re. 35,696	12/1997	Mikus			
		F	OREIGN PATE	ENT DOCUMENTS			
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CL	ASS SUB CLAS	TRANSLATI ON YES/NO
M	A204	121,737	03/1948	Sweden			
M	A205	123,136	11/1948	Sweden			

**EXAMINER:** 

DATE CONSIDERED: 670

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner. Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement

(Use several sheets if necessary)

DEC 2 1 2007

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

SERIAL NO. 09/841,433

GROUP: 1764

FILING DATE: April 24, 2001

FOREIGN P.	ATENT	DOCUMENTS
------------	-------	-----------

		TRADEMARK	OKEIGNTATE	11 DOCUMENTS			
EXAM. NITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATI ON YES/NO
TY	A206	123,137	11/1948	Sweden			
	A207	123,138	11/1948	Sweden			
	A208	126,674	11/1949	Sweden			
	A209	1,196,594	11/1985	CA			
-	A210	1,253,555	05/1989	CA			
	A211	1,288,043	08/1991	CA			
$\neg \vdash$	A212	156,396	01/1921	GB			
	A213	674,082	06/1952	GB		REC	<b>EIVED</b>
	A214	697,189	09/1953	GB			2 <b>7</b> 20 <b>01</b>
	A215	1,454,324	11/1976	GB			i
	A216	1,501,310	02/1978	GB		GHO	JP 360
	A217	2,086,416	05/1982	GB	<u> </u>		
	A218	1836876	12/1994	SU			
	A219	0570228 B1	09/1996	EP		-051	/EF)
	A220	99/01640	01/1999	WO	R	ECEI	<del>   </del>
	A221	95/06093	03/1995	WO		DEL 24	1001
	A222	95/12746	05/1995	WO		-A 17	nn
	A223	95/33122	12/1995	WO		1011	<b>V</b>
1	A224	95/12742	05/1995	WO			
	A225	95/12743	05/1995	WO			
	A226	95/12744	05/1995	WO			
D	A227	95/12745	05/1995	WO			
<u> </u>		OTHER ART (I	ncluding Author,	Title, Date, Pertinent Page	es, Etc.)		<del></del> -
or	A228	Some Effects of Pressure on Opp. 287-292.	il-Shale Retorting,	"Society of Petroleum Engi	neers Journal	, J.H. Bae, Sep	otember, 1969;
	A229	New in situ shale-oil recovery	process uses hot na	atural gas; The Oil & Gas Jo	urnal; May 10	5, 1966, p. 15	1.
		Evaluation of Downhole Electr Society 37 <sup>th</sup> Annual Petroleum Inc., Bosch et al., September 1 <sup>th</sup> New System Stops Paraffin Bu	and Chemical Independent of the property of th	ustry Conference; The Institu	ute of Electric	al and Electro	
		Oil Shale Retorting: Effects of Campbell et al. In Situ 2(1), 19	Particle Size and I				radation;

**EXAMINER:** 

DATE CONSIDERED:

6/7/0

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

DEC 2 1 2001

ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

SERIAL NO. 09/841,433

GROUP: 1764

FILING DATE: April 24, 2001

	A233	The Potential For In Situ Retorting of Oil Shale In the Piceance Creek Basin of Northwestern Colorado; Dougan et a
U	h233	Quarterly of the Colorado School of Mines, pp. 57-72.
	A234	Retoring Oil Shale Underground-Problems & Possibilities; B.F. Grant, Qtly of Colorado School of Mines, pp 39-46
<del></del>	A235	Molecular Mechanism of Oil Shale Pyrolysis in Nitrogen and Hydrogen Atmospheres, Hershkowitz et al.;
- 1	1233	Geochemistry and Chemistry of Oil Shales, American Chemical Society, 5/1983 pp. 301-316.
	A236	The Characteristics of a Low Temperature in Situ Shale Oil; George Richard Hill & Paul Dougan, Quarterly of the
	1	Colorado School of Mines, 1967; pp. 75-90.
	A237	Direct Production Of A Low Pour Point High Gravity Shale Oil; Hill et al., I & EC Product Research and
		Development, 6(1), March 1967; pp. 52-59.
	A238	Refining Of Swedish Shale Oil, L. Lundquist, pp. 621-627.
	A239	The Benefits of In Situ Upgrading Reactions to the Integrated Operations of the Orinoco Heavy-Oil Fields and
<u> </u>		Downstream Facilities, Myron Kuhlman, Society of Petroleum Engineers, June 2000; pp. 1-14.
	A240	Monitoring Oil Shale Retorts by Off-Gas Alkene/Alkane Ratios, John H. Raley, Fuel, Vol. 59, June 1980, pp. 419-4
	A241	The Shale Oil Question, Old and New Viewpoints, A Lecture in the Engineering Science Academy, Dr. Fredrik
		Ljungstrom, February 23, 1950, published in Teknisk Trdskrift, January 1951 p. 33-40.
	A242	Underground Shale Oil Pyrolysis According to the Ljungstroem Method; Svenska Skifferolje Aktiebolaget (Swedisl
	ļ	Shale Oil Corp.), IVA, Vol. 24, 1953, No. 3, pp. 118-123.
	A243	Kinetics of Low-Temperature Pyrolysis of Oil Shale by the IITRI RF Process, Sresty et al.; 15th Oil Shale Symposiu
	1	Colorado School of Mines, April 1982 pp. 1-13.
		Bureau of Mines Oil-Shale Research, H.M. Thorne, Quarterly of the Colorado School of Mines, pp. 77-90.
- 1	A245	Application of a Microretort to Problems in Shale Pyrolysis, A. W. Weitkamp & L.C. Gutberlet, Ind. Eng. Chem.
	A 246	Process Des. Develop. Vol. 9, No. 3, 1970, pp. 386-395.  Oil Shale, Yen et al., Developments in Petroleum Science 5, 1976, pp. 187-189, 197-198.
	A247	The Composition of Green River Shale Oils, Glenn L. Cook, et al., United Nations Symposium on the Development
	1.5.10	and Utilization of Oil Shale Resources, 1968, pp. 1-23.
	A248	High-Pressure Pyrolysis of Green River Oil Shale, Burnham et al., Geochemistry and Contact of oil States. D. American Chemical Society, 1983, pp. 335-351.
	ļ	Geochemistry and Pyrolysis of Oil Shales, Tissot et al., Geochemistry and Chemistry of Oil Shales, American Chem
	A249	
	1 250	Society, 1983, pp. 1-11.  A Possible Mechanism of Alkene/Alkane Production, Burnham et al., Oil Shale, Tar Sands, and Religion als,
	A250	American Chemical Society, 1981, pp. 79-92.
-	A251	The Ljungstroem In-Situ Method of Shale Oil Recovery, G. Salomonsson, Oil Shale and Cannel Coal, Vol. 2,
ļ	11231	Proceedings of the Second Oil Shale and Cannel Coal Conference, Institute of Petroleum, 1951, London, pp. 260-28
	A252	Developments in Technology for Green River Oil Shale, G.U. Dinneen, United Nations Symposium on the
ł		Development and Utilization of Oil Shale Resources, Laramie Petroleum Research Center, Bureau of Mines, 1968,
		pp.1-20.
	A253	The Thermal and Structural Properties of a Hanna Basin Coal, R.E. Glass, Transactions of the ASME, Vol. 106, Jur
		1984, pp. 266-271.
	A254	The Thermal and Structural Properties of the Coal in the Big Coal Seam, R.E. Glass, In Situ, 8(2), 1984, pp. 193-20
	A255	Investigation of the Temperature Variation of the Thermal Conductivity and Thermal Diffusivity of Coal, Badzioch
	<u> </u>	al., Fuel, Vol. 43, No. 4, July 1964, pp. 267-280.
	A256	On the Mechanism of Kerogen Pyrolysis, Alan K. Burnham & James A. Happe, January 10, 1984 (17 pages).
0/	B1	Proposed Field Test of the Lins Method Thermal Oil Recovery Process in Athabasca McMurray Tar Sands, Husky
W		Oil Company.

**EXAMINER:** 

DATE CONSIDERED:

4/7/02

EXAMINER: Initial incitation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement

(Use several sheets if necessary)



ATTY. DKT. NO. 5659-02000/TH

SERIAL NO. 09/841,433

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

		A PARTIE	0.0.1111111		MVACA	IMARA	
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
On	F1	4,252,191	Feb-1981	Pusch et al.			
,	F2	3,310,109	Mar-1967	J. W. Marx et al.			
	Gl	3,675,715	Jul-1972	Speller, Jr.			
	G2	3,809,159	May-1974	Young et al.			
	G5	3,766,982	Oct-73	Justheim			
	G7	3,599,714	Aug-71	Messman et al.			
· ·	G8	4,043,393	Aug-77	Fisher et al.			
a	Hl	4,093,025	June 78	Terry			
	1	OWNED ADE O	1 1º A 41	Title Dete Deutin and D	Page Etal		

		OTHER ART (Including Author, 11tie, Date, Pertinent Pages, Etc.)
✓~	F3 ,	Thermal, Mechanical, and Physical Properties of Selected Bituminous Coals and Cokes, J. M. Singer and R. P. Tye, US Department of Interior, Bureau of Mines (1979) Government Report No. 8364.
1.	G3 _	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 68-97.
	G4 ,	Department of Energy Coal Sample Bank and Database <a href="http://www.energy.psu.edu/arg/doesb.htm">http://www.energy.psu.edu/arg/doesb.htm</a> , June 4, 2002.
	G6	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 164-165.
		Hyne, Norman J. Geology for Petroleum Exploration, Drilling, and Production. McGraw-Hill Book Company, 1984, p. 264.
<u>~</u>	H2.	Hobson, G.D., Modern Petroleum Technology, Halsted Press, Applied Science Publishers LTD, 1973, pp. 786, 787

**EXAMINER:** 

DATE CONSIDERED: 12/9/4

EXAMINER: Initial in tation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

ĨΡĒ # 0 # 6 ATTY. DKD. NO. 5659-02000/TH1944 SERIAL NO. 09/841,433 Form PTO-1449 (modified) DEC 1 8 2001 List of Patents and Publications APPLICANT: Wellington, et al. GROUP: 1764 For Applicant's Information Disclosure Statement FILING DATE: April 24, 2001 (Use several sheets if necessary) OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Comparison of Methods for Measuring Kerogen Pyrolysis Rates and Fitting Kinetic Parameters, Burnham et al., March 23, 1987, (29 pages). A258 Further Comparison of Methods for Measuring Kerogen Pyrolysis Rates and Fitting Kinetic Parameters, Burnham et al., September 1987, (16 pages). A259 Tests of a Mechanism for H<sub>2</sub>S Release During Coal Pyrolysis, Coburn et al., May 31, 1991, (6 pages). A260 Kinetic Studies of Gas Evolution During Pyrolysis of Subbituminous Coal, J. H. Campbell et al., May 11, 1976, (14 Excavation of the Partial Seam Crip Underground Coal Gasification Test Site, Robert J. Cena, August 14, 1987, (11 A261 Evolution of Sulfur Gases During Coal Pyrolysis, Oh et al., February 3, 1988, (11 pages). A262 Coal Pyrolysis and Methane Decomposition In the Presence of a Hot Char Bed, Peters et al., August 1983, (21 pages). A263 Pyrolysis Kinetics and Maturation of Coals from the San Juan Basin, John G. Reynolds & Alan K. Burnham, December A264 1992, (30 pages). Numerical Model of Coal Gasification in a Packed Bed, A.M. Winslow, April 1976 (27 pages). A265 A266 LLL In-Situ Coal Gasification Program, Stephens et al., June, 14, 1976 (12 pages) Pyrolysis of Subbituminous Coal as it Relates to In-Situ Coal Gasification, J.H. Campbell, January 17, 1977 (20 pages). A268 The Historical Development of Underground Coal Gasification, D. Olness & D.W. Gregg, June 30, 1977 (60 pages). Laboratory Measurements of Groundwater Leaching and Transport of Pollutants Produced During Underground Coal A269 Gasification, V.A. Dalton & J.H. Campbell, March 1, 1978 (21 pages). The Hoe Creek II Field Experiment of Underground Coal Gasification, Preliminary Results, Aiman et al., February 27, A270 1978 (26 pages). Ground-Water and Subsidence Investigations of the LLL In Situ Coal Gasification Experiments, Mead et al, July 17-20, A271 1978 (31 pages). Geotechnical Instrumentation Applied to In Situ Coal Gasification Induced Subsidence, Ganow et al. June 21, 1978 (16 A272 The Use of Tracers in Laboratory and Field Tests of Underground Coal Gasification and Oil Shale Retorting, Lyczkowski et al., June 16, 1978 (19 pages). A274 Underground Gasification of Rocky Mountain Coal, D.R. Stephens and R.W. Hill, July 18, 1978 (15 pages). A275 High-BTU Gas Via In Situ Coal Gasification, Stephens et al., October, 1978 (41 pages). A One-Dimensional Model for In Situ Coal Gasification, Thorsness et al., August 25, 1978 (76 pages A276 Control Aspects of Underground Coal Gasification: LLL Investigations of Ground-Water and Subsidence Effects A277 Mead et al., November 10, 1978 (21 pages). Environmental Controls for Underground Coal Gasification: Ground-Water Effects and Control Technologies, Warren Mead & Ellen Raber, March 14, 1980 (19 pages). Results from the Third LLL Underground Coal Gasification Experiment at Hoe Creek, Hill et al., May 20, 1980 (12 A279 pages). Results From the Hoe Creek No. 3 Underground Coal Gasification Experiment, Thorsness et al., May 1980, (11 pages). A280 Steam Tracer Experiment at the Hoe Creek No. 3 Underground Coal Gasification Field Test Thorse A281 November 26, 1980 (51 pages). Computer Models to Support Investigations of Surface Subsidence and Associated Ground Motion Induced by A282

Underground Coal Gasification, R.T. Langland & B.C. Trent, July 1981 (16 pages).

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

SERIAL NO. 09/841,433 ATTY, DKT, NO. 5659-02000/TH1944 Form PTO-1449 (modified) List of Patents and Publications GROUP: 1764 DEC 1 8 2001 APPLICANT: Wellington, et al. For Applicant's Information Disclosure Statement (Use several sheets if necessar FILING DATE: April 24, 2001 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Burn Cavity Growth During the Hoe Creek No. 3 Underground Coal Gasification Experiment, R.W. Hill, June 8, 1981 A283 (28 pages). A284 The Controlled Retracting Injection Point (Crip) System: A Modified Stream Method for In Site Coal Gasification, R.W. Hill & M.J. Shannon, April 15, 1981 (11 pages). Coal Block Gasification Experiments: Laboratory Results and Field Plans: C.B. Thorsness & R.W. Hill, July 1981 (23 A285 A286 Laboratory Scale Simulation of Underground Coal Gasification: Experiment and Theory, J.R. Creighton & (27 pages). Underground Coal Gasification - A Leading Contender in the Synfuels Industry, D.R. Stephens, October 27, 1981 (42) Computer Models to Support Investigations of Surface Subsidence and Associated Ground Motion Induced by A288 Underground Coal Gasification, B.C. Trent & R.T. Langland, August 1981 (40 pages). The Hoe Creek Experiements: LLNL's Underground Coal Gasification Project in Wyoming, D.R. Stephens, October A289 1981 (162 pages). Technical Underground Coal Gasification Summation: 1982 Status, Stephens et al., July 1982 (22 pages). A290 A291 Review of Underground Coal Gasification Field Experiments at Hoe Creek (34 pages). A292 Underground Coal Gasification Using Oxygen and Steam, Stephens et al., January 19, 1984 (37 pages). Shale Oil Cracking Kinetics and Diagnostics, Bissell et al., November 1983, (27 pages). A293 A294 | Mathematical Modeling of Modified In Situ and Aboveground Oil Shale Retorting, Robert L. Braun, January 1981 (45) Progress Report on Computer Model for In Situ Oil Shale Retorting, R.L. Braun & R.C.Y. Chin, July 14, 1977 (34 A295 A296 Analysis of Multiple Gas-Solid Reactions During the Gasification of Char in Oil Shale Blocks, traumet at April 181 (14 pages). DEC 2 7 2001 Chemical Kinetics and Oil Shale Process Design, Alan K. Burnham, July 1993 (16 pages). A297 A298 Reaction Kinetics and Diagnostics For Oil Shale Retorting, Alan K. Burnham, October 19, 1987 (1985) P 3600 A299 Reaction Kinetics Between Steam and Oil Shale Char, A.K. Burnham, October 1978 (8 pages). A300 General Kinetic Model of Oil Shale Pyrolysis, Alan K. Burnham & Robert L. Braun, December 1984 (25 pages). A301 General Model of Oil Shale Pyrolysis, Alan K. Burnham & Robert L. Braun, November 1983 (22 pages). Pyrolysis Kinetics for Green River Oil Shale From the Saline Zone, Burnham et al., February, 1982 (33 pages). A303 Reaction Kinetics Between CO<sub>2</sub> and Oil Shale Char, A.K. Burnham, March 22, 1978 (9 pages front & back). A304 Reaction Kinetics Between CO<sub>2</sub> and Oil Shale Residual Carbon. I. Effect of Heating Rate on Reactivity, Alan K. Burnham, July 11, 1978 (11 pages front and back). A305 High-Pressure Pyrolysis of Colorado Oil Shale, Alan K. Burnham & Mary F. Singleton, O r 1982 (23 pages). A306 A Possible Mechanism Of Alkene/Alkane Production in Oil Shale Retorting, A.K. Burnham, R. Ward, November 26, 1980 (20 pages). A307 Enthalpy Relations For Eastern Oil Shale, David W. Camp, November 1987 (13 pages). Oil Shale Retorting: Part 3 A Correlation of Shale Oil 1-Alkene/n-Alkane Ratios With Yield, ourn a al., August 1, A308 1977 (18 pages). 2 The Composition of Green River Shale Oil, Glen L. Cook, et al., 1968 (12 pages). DATE CONSIDERED: 6/7/02

**EXAMINER:** 

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner. Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information

(Use several sheets if necessary

Disclosure Statement

DEC 1 8 2001

ATTY. DKT. NO. 5659-02000/TH1944

SERIAL NO. 09/841,433

CDOID 1764

GROUP: 1764

FILING DATE: April 24, 2001

APPLICANT: Wellington, et al.

AART (Including Author. Title. Date, Pertinent Pages. Etc.)

		COTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)
TU	A310	On-line, Mass Spectrometric Determination of Ammonia From Oil Shale Pyrolysis Using Isobutane Chemical Ionization, Crawford et al., March 1988 (16 pages).
		Thermal Degradation of Green River Kerogen at 150° to 350° C Rate of Production Formation, J.J. Cummins & W.E. Robinson, 1972 (18 pages).
	A312	Retorting of Green River Oil Shale Under High-Pressure Hydrogen Atmospheres, LaRue et al., June 1977 (38 pages).
	A313	Retorting and Combustion Processes In Surface Oil-Shale Retorts, A.E. Lewis & R.L. Braun, May 2, 1980 (12 pages).
	A314	Oil Shale Retorting Processes: A Technical Overview, Lewis et al., March 1984 (18 pages).
	A315	Study of Gas Evolution During Oil Shale Pyrolysis by TQMS, Oh et al., February 1988 (10 pages).
	A316	The Permittivity and Electrical Conductivity of Oil Shale, A.J. Piwinskii & A. Duba, April 28, 1975 (12 pages).
	A317	Oil Degradation During Oil Shale Retorting, J.H. Raley & R.L. Braun, May 24, 1976 (14 pages).
		Kinetic Analysis of California Oil Shale By Programmed Temperature Microphyrolysis, John G. Reynolds & Alan K. Burnham, December 9, 1991 (14 pages).
		Analysis of Oil Shale and Petroleum Source Rock Pyrolysis by Triple Quadrupole Mass Spectrometry: Comparisons of Gas Evolution at the Heating Rate of 10°C/Min., Reynolds et al. October 5, 1990 (57 pages).
	A320	Catalytic Activity of Oxidized (Combusted) Oil Shale for Removal of Nitrogen Oxides with Ammonia as a Reductant in Combustion Gas Streams, Part II, Reynolds et al., January 4, 1993 (9 pages).
	A321	Fluidized-Bed Pyrolysis of Oil Shale, J.H. Richardson & E.B. Huss, October 1981 (27 pages).
	1	Retorting Kinetics for Oil Shale From Fluidized-Bed Pyrolysis, Richardson et al., December 1981 (30 pages).
		Recent Experimental Developments in Retorting Oil Shale at the Lawrence Livermore Laboratory, Albert J. Rothman, August 1978 (32 pages).
	A324	The Lawrence Livermore Laboratory Oil Shale Retorts, Sandholtz et al. September 18, 1978 (30 pages).
	A325	Operating Laboratory Oil Shale Retorts In An In-Situ Mode, W. A. Sandholtz et al., August 18, 1977 (16 pages).
		Some Relationships of Thermal Effects to Rubble-Bed Structure and Gas-Flow Patterns in Oil State Letons W. A. Sandholtz, March 1980 (19 pages).
	A327	Sandholtz, March 1980 (19 pages).  Assay Products from Green River Oil Shale, Singleton et al., February 18, 1986 (213 pages).  DEC 2 7 2001
	A328	Assay Products from Green River Oil Shale, Singleton et al., February 18, 1986 (213 pages).  Biomarkers in Oil Shale: Occurrence and Applications, Singleton et al., October 1982 (28 pages).  Occurrence of Biomarkers in Green River Shale Oil, Singleton et al., March 1983 (29 pages).
	A329	Occurrence of Biomarkers in Green River Shale Oil, Singleton et al., March 1983 (29 pages).
		An Instrumentation Proposal for Retorts in the Demonstration Phase of Oil Shale Development, Clyde J. Sisemore, April 19, 1977, (34 pages).
	A331	A Laboratory Apparatus for Controlled Time/Temperature Retorting of Oil Shale, Stout et al., November 1, 1976 (19 pages).
	A332	SO <sub>2</sub> Emissions from the Oxidation of Retorted Oil Shale, Taylor et al., November 1981 (9 pages).
	A333	Nitric Oxide (NO) Reduction by Retorted Oil Shale, R.W. Taylor & C.J. Morris, October 1983 (16 pages)
1	A334	Coproduction of Oil and Electric Power from Colorado Oil Shale, P. Henrik Wallman, September 27, 1911 20 pages).
	A335	<sup>13</sup> C NMR Studies of Shale Oil, Raymond L. Ward & Alan K. Burnham, August 1982 (22 pages).
	A336	Identification by <sup>13</sup> C NMR of Carbon Types in Shale Oil and their Relationship to Pyrolysis Conditions, Raymond L. Ward & Alan K. Burnham, September 1983 (27 pages).
-W	A337	Ward & Alan K. Burnham, September 1983 (27 pages).  A Laboratory Study of Green River Oil Shale Retorting Under Pressure In a Nitrogen Atmosphere, Wase et al., September 1976 (24 pages).
	<del>'                                    </del>	September 1970 (24 pages).

EXAMINER:

DATE CONSIDERED: 6/7/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.



ATTY. DKT. NO. 5659-02000/TH1944

APPLICANT: Wellington, et al.

**GROUP: 1764** 

FILING DATE: April 24, 2001

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

or		Quantitative Analysis and Evolution of Sulfur-Containing Gases from Oil Shale Pyrolysis by Triple Quadrupole Mass Spectrometry, Wong et al., November 1983 (34 pages).
1	A339	Quantitative Analysis & Kinetics of Trace Sulfur Gas Species from Oil Shale Pyrolysis by Triple Quadrupole Mass Spectrometry (TQMS), Wong et al., July 5-7, 1983 (34 pages).
	A340	Application of Self-Adaptive Detector System on a Triple Quadrupole MS/MS to High Expolsives and Sulfur-Containing Pyrolysis Gases from Oil Shale, Carla M. Wong & Richard W. Crawford, October 1983 (17 pages).
		An Evaluation of Triple Quadrupole MS/MS for On-Line Gas Analyses of Trace Sulfur Compounds from Oil Shale Processing, Wong et al., January 1985 (30 pages).
	A342	Source and Kinetics of Sulfur Species in Oil Shale Pyrolysis Gas by Triple Quadrupole Mass Spectrometry, Wong et al., October 1983 (14 pages).
	A343	The Centralia Partial Seam CRIP Underground Coal Gasification Experiment, Cena et al., June 1984 (38 pages).
	A344	Results of the Centralia Underground Coal Gasification Field Test, Hill et al., August 1984 (18 pages).
	A345	Excavation of the Partial Seam Crip Underground Coal Gasification Test Site, Cena et al., August 14, 1987 (11 pages).
	A346	Assessment of the CRIP Process for Underground Coal Gasification: The Rocky Mountain I Test, Cena et al., August 1, 1988 (22 pages).
	A347	Mild Coal Gasification-Product Separation, Pilot-Unit Support, Twin Screw Heat Transfer, and H <sub>2</sub> S Evolution, Camp et al., August 9, 1991 (12 pages).
$\hat{\mathcal{O}}$	A348	Underground Coal Gasification Site Selection and Characterization in Washington State and Gasification Test Designs, Randolph Stone & R.W. Hill, September 10, 1980 (62 pages).

RECEIVED DEC 2 7 2001 GROUP 3600

SERIAL NO. 09/841,433

**EXAMINER:** 

DATE CONSIDERED: 6/7/02

EXAMINER: Initial/if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

61PE ATTY. DKT. NO. 5659-05000/TH1975 Form PTO-1449 (modified) SERIAL NO. 09/841,443 List of Patents and Publications DEC 2 0 APPLICANT: Karanikas, et al. For Applicant's Information GROUP: 3673 Disclosure Statement (Use several sheets if necessary) FILING DATE: April 24, 2001 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Comparison of Methods for Measuring Kerogen Pyrolysis Rates and Fitting Kinetic Parameters, Burnham et al., Marc ~[œ 23, 1987, (29 pages). A258 Further Comparison of Methods for Measuring Kerogen Pyrolysis Rates and Fitting Kinetic Parameters, Burnham et al., September 1987, (16 pages). Tests of a Mechanism for H<sub>2</sub>S Release During Coal Pyrolysis, Coburn et al., May 31, 1991, (6 pages). Kinetic Studies of Gas Evolution During Pyrolysis of Subbituminous Coal, J. H. Campbell et al., May 11, 1976, (14 A261 Excavation of the Partial Seam Crip Underground Coal Gasification Test Site, Robert J. Cena, August 14, 1987, (11 A262 Evolution of Sulfur Gases During Coal Pyrolysis, Oh et al., February 3, 1988, (11 pages). A263 Coal Pyrolysis and Methane Decomposition In the Presence of a Hot Char Bed, Peters et al., August 1983, (21 pages) Pyrolysis Kinetics and Maturation of Coals from the San Juan Basin, John G. Reynolds & Alan K. Burnham, Decemb A264 1992, (30 pages). Numerical Model of Coal Gasification in a Packed Bed, A.M. Winslow, April 1976 (27 pages). A265 A266 LLL In-Situ Coal Gasification Program, Stephens et al., June, 14, 1976 (12 pages) Pyrolysis of Subbituminous Coal as it Relates to In-Situ Coal Gasification, J.H. Campbell, January 17, 1977 (20 page The Historical Development of Underground Coal Gasification, D. Olness & D.W. Gregg, June 30, 1977 (60 pages). Laboratory Measurements of Groundwater Leaching and Transport of Pollutants Produced During Underground Coal Gasification, V.A. Dalton & J.H. Campbell, March 1, 1978 (21 pages). The Hoe Creek II Field Experiment of Underground Coal Gasification, Preliminary Results, Aiman et al., February 27 1978 (26 pages). Ground-Water and Subsidence Investigations of the LLL In Situ Coal Gasification Experiments, Mead et al, July 17-2 A271 1978 (31 pages). Geotechnical Instrumentation Applied to In Situ Coal Gasification Induced Subsidence, Ganow et al. June 21, 1978 (1 A272 The Use of Tracers in Laboratory and Field Tests of Underground Coal Gasification and Oil Shale Retorting, A273 Lyczkowski et al., June 16, 1978 (19 pages). Underground Gasification of Rocky Mountain Coal, D.R. Stephens and R.W. Hill, July 18, 1978 (15 pages). High-BTU Gas Via In Situ Coal Gasification, Stephens et al., October, 1978 (41 pages). A276 A One-Dimensional Model for In Situ Coal Gasification, Thorsness et al., August 25, 1978 (76 pages). Control Aspects of Underground Coal Gasification: LLL Investigations of Ground-Water and Subsidence Effects, Mead et al., November 10, 1978 (21 pages). Environmental Controls for Underground Coal Gasification: Ground-Water Effects and Control Technologies, Warre Mead & Ellen Raber, March 14, 1980 (19 pages). A279 Results from the Third LLL Underground Coal Gasification Experiment at Hoe Creek, Hill et al., May 20, 1980 (12 pages).

**EXAMINER:** 

A280

A281

November 26, 1980 (51 pages).

DATE CONSIDERED:

Results From the Hoe Creek No. 3 Underground Coal Gasification Experiment, Thorsness et al., May 1980, (11 page

Computer Models to Support Investigations of Surface Subsidence and Associated Ground Motion Induced by

GROUP 36

EXAMINER: Initial if tration considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

Steam Tracer Experiment at the Hoe Creek No. 3 Underground Coal Gasification Field Test

Underground Coal Gasification, R.T. Langland & B.C. Trent, July 1981 (16 pages).

POP ATTY. DKT. NO. 5659-05000/TH1975 Form PTO-1449 (modified) SERIAL NO. 09/841,443 List of Patents and Publications APPLICANT: Karanikas, et al. For Applicant's Information **GROUP: 3673** DEC 2 0 2001 Disclosure Statement (Use several sheets if necessar FILING DATE: April 24, 2001 OTHER ARX (Including Author, Title, Date, Pertinent Pages, Etc.) Burn Cavity Grown the Hoe Creek No. 3 Underground Coal Gasification Experiment, R.W. Hill, June 8, 198 A283 () (28 pages). The Controlled Retracting Injection Point (Crip) System: A Modified Stream Method for In Site Coal Gasification, A284 R.W. Hill & M.J. Shannon, April 15, 1981 (11 pages). Coal Block Gasification Experiments: Laboratory Results and Field Plans: C.B. Thorsness & R.W. Hill, July 1981 (23) A285 A286 Laboratory Scale Simulation of Underground Coal Gasification: Experiment and Theory, J.R. Creighton & (27 pages) Underground Coal Gasification - A Leading Contender in the Synfuels Industry, D.R. Stephens, October 27, 1981 (42 Computer Models to Support Investigations of Surface Subsidence and Associated Ground Motion Induced by A288 Underground Coal Gasification, B.C. Trent & R.T. Langland, August 1981 (40 pages). A289 The Hoe Creek Experiements: LLNL's Underground Coal Gasification Project in Wyoming, D.R. Stephens, October 1981 (162 pages). Technical Underground Coal Gasification Summation: 1982 Status, Stephens et al., July 1982 (22 pages). A290 Review of Underground Coal Gasification Field Experiments at Hoe Creek (34 pages). A292 Underground Coal Gasification Using Oxygen and Steam, Stephens et al., January 19, 1984 (37 pages). A293 Shale Oil Cracking Kinetics and Diagnostics, Bissell et al., November 1983, (27 pages). A294 Mathematical Modeling of Modified In Situ and Aboveground Oil Shale Retorting, Robert L. Braun, January 1981 (4 A295 Progress Report on Computer Model for In Situ Oil Shale Retorting, R.L. Braun & R.C.Y. Chin, July 14, 1977 (34 A296 Analysis of Multiple Gas-Solid Reactions During the Gasification of Char in Oil Shale Blocks, Braun et al., April 198 (14 pages). A297 Chemical Kinetics and Oil Shale Process Design, Alan K. Burnham, July 1993 (16 pages). Reaction Kinetics and Diagnostics For Oil Shale Retorting, Alan K. Burnham, October 19, 1981 (32 pages). A299 Reaction Kinetics Between Steam and Oil Shale Char, A.K. Burnham, October 1978 (8 pages). A300 General Kinetic Model of Oil Shale Pyrolysis, Alan K. Burnham & Robert L. Braun, December 1984 (25 pages). A301 General Model of Oil Shale Pyrolysis, Alan K. Burnham & Robert L. Braun, November 1983 (22 pages). Pyrolysis Kinetics for Green River Oil Shale From the Saline Zone, Burnham et al., February, 1982 (33 pages). Reaction Kinetics Between CO<sub>2</sub> and Oil Shale Char, A.K. Burnham, March 22, 1978 (9 pages front & back). Reaction Kinetics Between CO<sub>2</sub> and Oil Shale Residual Carbon. I. Effect of Heating Rate on Reactivity, Alan K. Burnham, July 11, 1978 (11 pages front and back). High-Pressure Pyrolysis of Colorado Oil Shale, Alan K. Burnham & Mary F. Singleton, October 1982 (23 pages). A Possible Mechanism Of Alkene/Alkane Production in Oil Shale Retorting, A.K. Burnham, R.L. Ward, November 2

**EXAMINER:** 

A308

1977 (18 pages).

DATE CONSIDERED:

Oil Shale Retorting: Part 3 A Correlation of Shale Oil 1-Alkene/n-Alkane Ratios With Yield Coburn et al., August 1,

EXAMINER: Initial of citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

DEC 2 7 2001

GROUP 36

Enthalpy Relations For Eastern Oil Shale, David W. Camp, November 1987 (13 pages).

The Composition of Green River Shale Oil, Glen L. Cook, et al., 1968 (12 pages).

DEC 2 0 2001

ATTY. DKT. NO. 5659-05000/TH1975

APPLICANT: Karanikas, et al.

SERIAL NO. 09/841,443

**GROUP: 3673** 

FILING DATE: April 24, 2001

cluding Author, Title, Date, Pertinent Pages, Etc.)

W	A310	On-line, Mass Speciforhettic Determination of Ammonia From Oil Shale Pyrolysis Using Isobutane Chemical
V	ļ	Ionization, Crawford et al., March 1988 (16 pages).
(	A311	Thermal Degradation of Green River Kerogen at 150° to 350° C Rate of Production Formation, J.J. Cummins & W. Robinson, 1972 (18 pages).
1	A312	Retorting of Green River Oil Shale Under High-Pressure Hydrogen Atmospheres, LaRue et al., June 1977 (38 pages
	A313	Retorting and Combustion Processes In Surface Oil-Shale Retorts, A.E. Lewis & R.L. Braun, May 2, 1980 (12 page
	A314	Oil Shale Retorting Processes: A Technical Overview, Lewis et al., March 1984 (18 pages).
	A315	Study of Gas Evolution During Oil Shale Pyrolysis by TQMS, Oh et al., February 1988 (10 pages).
	A316	The Permittivity and Electrical Conductivity of Oil Shale, A.J. Piwinskii & A. Duba, April 28, 1975 (12 pages).
	A317	Oil Degradation During Oil Shale Retorting, J.H. Raley & R.L. Braun, May 24, 1976 (14 pages).
		Kinetic Analysis of California Oil Shale By Programmed Temperature Microphyrolysis, John G. Reynolds & Alan Burnham, December 9, 1991 (14 pages).
		Analysis of Oil Shale and Petroleum Source Rock Pyrolysis by Triple Quadrupole Mass Spectrometry: Comparison Gas Evolution at the Heating Rate of 10°C/Min., Reynolds et al. October 5, 1990 (57 pages).
		Catalytic Activity of Oxidized (Combusted) Oil Shale for Removal of Nitrogen Oxides with Ammonia as a Reducta in Combustion Gas Streams, Part II, Reynolds et al., January 4, 1993 (9 pages).
		Fluidized-Bed Pyrolysis of Oil Shale, J.H. Richardson & E.B. Huss, October 1981 (27 pages).
	A322	Retorting Kinetics for Oil Shale From Fluidized-Bed Pyrolysis, Richardson et al., December 1981 (30 pages).
		Recent Experimental Developments in Retorting Oil Shale at the Lawrence Livermore Laboratory, Albert J. Rothman, August 1978 (32 pages).
	A324	The Lawrence Livermore Laboratory Oil Shale Retorts, Sandholtz et al. September 18, 1978 (30 pages).
	A325	Operating Laboratory Oil Shale Retorts In An In-Situ Mode, W. A. Sandholtz et al., August 18, 1977 (16 pages).
	A326	Some Relationships of Thermal Effects to Rubble-Bed Structure and Gas-Flow Patterns in Oil Shale Retorts, W. A. Sandholtz, March 1980 (19 pages).
	A327	Assay Products from Green River Oil Shale, Singleton et al., February 18, 1986 (213 pages).
	A328	Biomarkers in Oil Shale: Occurrence and Applications, Singleton et al., October 1982 (28 pages).
	A329	Occurrence of Biomarkers in Green River Shale Oil, Singleton et al., March 1983 (29 pages).
		An Instrumentation Proposal for Retorts in the Demonstration Phase of Oil Shale Development, Clyde J. Sisemore, April 19, 1977, (34 pages).
	<u> </u>	A Laboratory Apparatus for Controlled Time/Temperature Retorting of Oil Shale, Stout et al., November 1, 1976 (pages).
	1	SO <sub>2</sub> Emissions from the Oxidation of Retorted Oil Shale, Taylor et al., November 1981 (9 pages).
		Nitric Oxide (NO) Reduction by Retorted Oil Shale, R.W. Taylor & C.J. Morris, October 1983 (16 pages).
	A334	Coproduction of Oil and Electric Power from Colorado Oil Shale, P. Henrik Wallman, September 24, 1991 (20 pag
	A335	<sup>13</sup> C NMR Studies of Shale Oil, Raymond L. Ward & Alan K. Burnham, August 1982 (22 pages).
7	•	Identification by <sup>13</sup> C NMR of Carbon Types in Shale Oil and their Relationship to Pyrolysis Conditions, Raymond Ward & Alan K. Burnham, September 1983 (27 pages).
a	A337	A Laboratory Study of Green River Oil Shale Retorting Under Pressure In a Nitrogen Atmosphere, Wise et al., September 1976 (24 pages).

**EXAMINER:** 

DATE CONSIDERED: 67 GROUP 5

EXAMINER: Initial a citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

ATTY. DKT. NO. 5659-05000/TH1975 Form PTO-1449 (modified) SERIAL NO. 09/841,443 List of Patents and Publications APPLICANT: Karanikas, et al. For Applicant's Information **GROUP: 3673** DEC 2 0 2001 Disclosure Statement FILING DATE: April 24, 2001 (Use several sheets if necessary OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Quantitative Analysis and Evolution of Sulfur-Containing Gases from Oil Shale Pyrolysis by Triple Quadrupole Mass A338 M Spectrometry, Wong et al., November 1983 (34 pages). Quantitative Analysis & Kinetics of Trace Sulfur Gas Species from Oil Shale Pyrolysis by Triple Quadrupole Mass A339 Spectrometry (TQMS), Wong et al., July 5-7, 1983 (34 pages). Application of Self-Adaptive Detector System on a Triple Quadrupole MS/MS to High Expolsives and Sulfur-A340 Containing Pyrolysis Gases from Oil Shale, Carla M. Wong & Richard W. Crawford, October 1983 (17 pages). An Evaluation of Triple Quadrupole MS/MS for On-Line Gas Analyses of Trace Sulfur Compounds from Oil Shale Processing, Wong et al., January 1985 (30 pages). Source and Kinetics of Sulfur Species in Oil Shale Pyrolysis Gas by Triple Quadrupole Mass Spectrometry, Wong et al., October 1983 (14 pages). The Centralia Partial Seam CRIP Underground Coal Gasification Experiment, Cena et al., June 1984 (38 pages). A343 Results of the Centralia Underground Coal Gasification Field Test, Hill et al., August 1984 (18 pages). A345 Excavation of the Partial Seam Crip Underground Coal Gasification Test Site, Cena et al., August 14, 1987 (11 pages Assessment of the CRIP Process for Underground Coal Gasification: The Rocky Mountain I Test, Cena et al., August A346 1988 (22 pages). A347 Mild Coal Gasification-Product Separation, Pilot-Unit Support, Twin Screw Heat Transfer, and H<sub>2</sub>S Evolution, Camp

Underground Coal Gasification Site Selection and Characterization in Washington State and Gasification Test Design

et al., August 9, 1991 (12 pages).

Randolph Stone & R.W. Hill, September 10, 1980 (62 pages).



EXAMINER:

DATE CONSIDERED: 67 82

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

PH 8 # 8 ATTY. DKT. NO. 5659-05000/TH1975

SERIAL NO. 09/841,443

APPLICANT: Karanikas, et al.

GROUP: 3673

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS** 

		PADEMARK OFFIS		DOCUMENTS			
XAM. NITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
or	A1	760,304	05/1904	Butler			
1	A2	1,342,741	06/1920	Day			
	A3	1,510,655	10/1924	Clark			
	A4	1,666,488	02/1927	Crawshaw			
	A5	1,913,395	11/1929	Karrick			
	A6	2,423,674	07/1947	Agren			
-	A7	2,444,755	07/1948	Steffen			
	A8	2,466,945	02/1946	Greene			
4	A9	2,472,445	06/1949	Sprong			
	A10	2,484,063	10/1949	Ackley			
	A11	2,497,868	02/1950	Dalin			
	A12	2,548,360	04/1951	Germain			
	A13	2,593,477	04/1952	Newman et al.			
	A14	2,595,979	05/1952	Pevere et al.			
	A15	2,630,306	01/1952	Evans			
	A16	2,634,961	04/1953	Ljungstrom			
	A17	2,642,943	06/1953	Smith et al.			
	A18	2,670,802	03/1954	Ackley		<u> </u>	
	A19	2,695,163	11/1954	Pearce et al.			
	A20	2,732,195	01-24-56	Ljungstrom			
	A21	2,734,579	02-14-56	Elkins			
	A22	2,780,449	02-05-57	Fisher et al.	RE	CEI	VED
	A23	2,777,679	01/1957	Ljungstrom		DEC 21	2001
	A24	2,780,450	02/1957	Ljungstrom	GP	DUD	
	A25	2,786,660	03/1957	Alleman	GII	UUP	3600
	A26	2,789,805	04/1957	Ljungstrom			
	A27	2,804,149	08/1957	Kile			
	A28	2,841,375	07/1958	Salomonsson			
	A29	2,902,270	09/1959	Salomonsson et al.			
T.	A30	2,906,337	09/1959	Henning		<u></u>	

**EXAMINER:** 

DATE CONSIDERED:

EXAMINER: Initial Leitation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

Form PTO-1449 (modified) List of Patents and Publications

For Applicant's Information Disclosure Statement

For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)

DEC 2 0 2001

ATTY. DKT. NO. 5659-05000/TH1975

APPLICANT: Karanikas, et al.

FILING DATE: April 24, 2001

SERIAL NO. 09/841,443

**GROUP: 3673** 

U.S.	PATE	NT DOCU	JMENTS

		TUE MA		DOCUMENTS		,	
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
Of	A31	2,914,309	11/1959	Salomonsson			
	A32	2,923,535	02/1960	Ljungstrom			
	A33	2,939,689	06/1960	Ljungstrom			
	A34	2,954,826	10/1960	Sievers			
	A35	2,974,937	03/1961	Kiel			
	A36	2,994,376	08/1961	Crawford et al.			
-	A37	2,998,457	08/1961	Paulsen			
	A38	3,004,603	10/1961	Rogers et al.	_		
	A39	3,007,521	11/1961	Trantham et al.			
	A40	3,095,031	06/1963	Eurenius et al.			
	A41	3,105,545	10/1963	Prats et al.			
	A42	3,106,244	10/1963	Parker			
	A43	3,110,345	11/1963	Reed et al.			
	A44	3,113,623	12/1963	Krueger			
	A45	3,114,417	12/1963	McCarthy			
	A46	3,131,763	05/1964	Kunetka et al.	DE		
	A47	3,139,928	07/1964	Broussard		CEIV	į.
	A48	3,142,336	07/1964	Doscher	DE	C 2 1 2	001
	A49	3,149,672	10/1964	Orkiszewski et al.	GRO	UP (	2600
	A50	3,163,745	12/1964	Boston	<b>4110</b>	101	1000
	A51	3,164,207	01/1965	Thessen et al.			
	A52	3,182,721	05/1965	Hardy			
	A53	3,183,675	05/1965	Schroeder			
	A54	3,191,679	06/1965	Miller			
	A55	3,205,946	10/1965	Prats et al.			
\	A56	3,207,220	10/1965	Williams			
	A57	3,208,531	10/1965	Tamplen			
0	A58	3,209,825	10/1965	Alexander et al.			

**EXAMINER:** 

DATE CONSIDERED:

EXAMINER: Initial if eliation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

ATTY. DKT. NO. 5659-05000/TH1975

APPLICANT: Karanikas, et al.

FILING DATE: April 24, 2001

SERIAL NO. 09/841,443

GROUP: 3673

EMARKS U.S. PATENT DOCUMENTS

		DEMAN	U.S. I ATENI	DOCUMENTS			
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE II APPROPRIATE
N	A59	3,237,689	03/1966	Justheim			
	A60	3,241,611	03/1966	Dougan			
	A61	3,250,327	05/1966	Crider			
	A62	3,267,680	08/1966	Schlumberger			
	A63	3,284,281	11/1966	Thomas			
	A64	3,338,306	08/1967	Cook			
	A65	3,528,501	09/1970	Parker			
	A66	3,595,082	07/1971	Miller et al.			- 1
٠	A67	3,973,628	08/1976	Colgate			
	A68	3,992,148	11/1975	Child			
	A69	3,993,132	11/1977	Garrett			
	A70	4,016,239	04/1977	Fenton			
	A71	4,076,761	02/1978	Chang et al.			
	A72	4,089,372	05/1978	Тетту			
	A73	4,093,026	06/1978	Ridley			
	A74	4,096,163	06/1978	Chang, et al.	D		
	A75	4,130,575	12/1978	Jorn et al.	H	ECE	VED
	A76	4,133,825	01/1979	Stroud et al.		DEC 2 1	2001
	A77	4,138,442	02/1979	Chang et al.	GF	ROUF	10000
	A78	4,186,801	02/1980	Madgavkar et al.	- Gi	IUUI	3600
	A79	4,250,230	02/1981	Terry			
	A80	4,250,962	02/1981	Madgavkar et al.			
	A81	4,273,188	06/1981	Vogel et al.			
	A82	4,274,487	06/1981	Hollingsworth et al.			
	A83	4,299,086	11/1981	Madgavkar et al.			
	A84	4,299,285	11/1981	Tsai et al.			
	A85	4,359,687	11/1982	Vinegar et al.			
	A86	4,363,361	12/1982	Madgavkar et al.			
	A87	4,366,668	01/1983	Madgavkar et al.			
2	A-88	4,378,048	03/1983	Madgavkar et al.			

EXAMINER: DATE CONSIDERED: 67 or

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

DEC: 2 0 2001

ATTY. DKT. NO. 5659-05000/TH1975

APPLICANT: Karanikas, et al.

SERIAL NO. 09/841,443

GROUP: 3673

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS** 

XAM.	REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB	FILING DATE IF
ITIALS	DES.			<del></del>		CLASS	APPROPRIATE
orl	A89	4,381,641	05/1983	Madgavkar et al.			
	A90	4,398,151	08/1983	Vinegar et al.			
	A91	4,407,973	10/1983	van Dijk et al.			
	A92	4,409,090	10/1983	Hanson et al.			
	A93	4,444,258	04/1984	Kalmar			
	A94	4,501,445	02/1985	Gregoli			
	A95	4,530,401	07/1985	Hartman et al.			
	A96	4,540,882	10/1985	Vinegar et al.			
-	A97	4,542,648	10/1985	Vinegar et al.			
	A98	4,570,715	02/1986	Van Meurs et al.			
	A99	4,571,491	02/1986	Vinegar et al.			
	A100	4,572,299	02/1986	Vanegmond et al.			
	A101	4,583,046	04/1986	Vinegar et al.			
	A102	4,583,242	04/1986	Vinegar et al.			
1.	A103	4,594,468	06/1986	Minderhoud			
	A104	4,597,441	07/1986	Ware et al.			
	A105	4,605,680	08/1986	Beuther et al.	RFC	FIVE	ח
	A106	4,613,754	09/1986	Vinegar et al.		2 1 200	
1	A107	4,616,705	10/1986	Stegemeier et al.		<del>                                     </del>	
	A108	4,635,197	01/1987	Vinegar et al.	GRO	JP 36	300
1	A109	4,640,352	02/1987	Vanmeurs et al.			
	A110	4,644,283	02/1987	Vinegar et al.			
	A111	4,658,215	04/1987	Vinegar et al.			
	A112	4,663,711	05/1987	Vinegar et al.			
<u> </u>	A113	4,671,102	06/1987	Vinegar et al.			
1	A114	4,716,960	01/1988	Eastlund et al.			
<del> </del>	A115	4,719,423	01/1988	Vinegar et al.			
<b> </b>	A116		03/1988	Vinegar et al.			
	A117	4,728,892	03/1988	Vinegar et al.		<del> </del>	
·A	A118	4,730,162			<u> </u>	<del>                                     </del>	
<u> </u>	┦ (	4,743,854	05/1988	Vinegar et al.  DATE CONSIDI		17/02	

EXAMINER: Initial if attation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information

## ATTY. DKT. NO. 5659-05000/TH1975

APPLICANT: Karanikas, et al.

SERIAL NO. 09/841,443

**GROUP: 3673** 

e severar	SHCCIS II I	necessary	U.S. PATENT I	OCUMENTS			
AM.	REF.	DOCUMENT NUMBER	DATE	NAME	CLASS		FILING DATE IF APPROPRIATE
ITIALS OF	DES. A119	4,762,425	08/1988	Shakkottai et al.			
	A120	4,769,602	09/1988	Vinegar et al.			
	A121	4,769,606	09/1988	Vinegar et al.			
	A122	4,793,656	12/1988	Siddoway et al.		<u> </u>	
	A123	4,827,761	05/1989	Vinegar et al.			
	A124	4,848,924	07/1989	Nuspl et al.			
	A125	4,856,341	08/1989	Vinegar et al.			
	A126	4,860,544	08/1989	Krieg et al.			
-	A127	4,866,983	09/1989	Vinegar et al.			<u> </u>
	A128	4,884,455	12/1989	Vinegar et al.			
	A129	4,886,118	12/1989	Van Meurs et al.			
	A130	4,927,857	05/1990	McShea III et al.			
	A131	4,974,425	12/1990	Krieg et al.			<u> </u>
	A132	4,983,319	01/1991	Gregoli et al.			
	A133	4,984,594	01/1991	Vinegar et al.		<u></u>	
	A134	4,987,368	01/1991	Vinegar	HAFT	W/EF	
	A135	4,994,093	02/1991	Wetzel et al.	ECE		/
	A136	5,014,788	05/1991	Puri et al.	DEC 2	2001	
	A137	5,046,559	10/1991	Glandt	<del>POH</del>	360	nh
	A138	5,050,386	09/1991	Krieg et al.	11001	000	<del>                                     </del>
	A139	5,060,287	10/1991	Van Egmond		<del> </del>	<u> </u>
	A140	5,060,726	10/1991	Glandt et al.		<del> </del>	
	A141	5,065,818	11/1991	Van Egmond		<del> </del>	
	A142	5,168,927	12/1992	Stegemeier et al.		-	<del>                                     </del>
	A143	5,189,283	02/1993	Carl, Jr. et al.		<del> </del>	
	A144	5,190,405	03/1993	Vinegar et al.		<del> </del>	
	A145	5,207,273	05/1993	Cates et al.			
	A140	5,211,230	05/1993	Ostapovich et al.			
	A14	5,226,961	07/1993	Nahm et al.		<del>-</del>	
V	A14		07/1993	van Egmond et al.		1 1	
EXAMIN	TED (			DATE CONSID	ered: 6	702	

EXAMINER: EXAMINER: Initial is citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

DEC 2 0 2001

ATTY. DKT. NO. 5659-05000/TH1975

APPLICANT: Karanikas, et al.

SERIAL NO. 09/841,443

GROUP: 3673

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS** 

INITIALS D	REF. DES. A149 A150 A151 A152	5,236,039 5,255,742	DATE 08/1993	NAME	CLASS		FILING DATE IF APPROPRIATE
A   A   A   A   A   A   A   A   A   A	A150 A151		08/1993				TI LIVOLICIA I E
	A151	5.255 742		Edelstein et al.			
		J,200,17E	10/1993	Mikus			
	A152	5,297,626	03/1994	Vinegar et al.			
	1	5,306,640	04/1994	Vinegar et al.			
	A153	5,318,116	06/1194	Vinegar et al.			
	A154	5,339,897	08/1994	Leaute			
1 -	A155	5,340,467	08/1994	Gregoli et al.			
	A156	5,349,859	09/1994	Kleppe			
I A	A157	5,388,640	02/1995	Puri et al.			
l A	A158	5,388,641	02/1995	Yee et al.			
Į.	A159	5,388,642	02/1995	Puri et al.			
A	A160	5,388,643	02/1995	Yee et al.			
. A	A161	5,388,645	02/1995	Puri et al.			
I I	A162	5,391,291	02/1995	Winquist et al.			
, F	A163	5,392,854	02/1995	Vinegar et al.			
A	A164	5,404,952	04/1995	Vinegar et a	<b>1</b> EIV	ED	
I A	A165	5,409,071	04/1995	777 111		1	
I	A166	5,411,089	05/1995	Vinegar et al.	<del>C 2 1 2</del>	<del>001</del>	
I	A167	5,415,231	05/1995	Northrop eta R	JUP:	3600	
I	A168	5,431,224	07/1995	Laali			
I	A169	5,433,271	07/1995	Vinegar et al.			
F	A170	5,437,506	08/1995	Gray			
F	A171	5,439,054	08/1995	Chaback et al.			
I A	A172	5,454,666	10/1995	Chaback et al.			
I A	A173	5,497,087	03/1996	Vinegar et al.			
I A	A174	5,498,960	03/1996	Vinegar et al.			
I I	A175	5,525,322	06/1996	Willms			
I A	A176	5,553,189	09/1996	Stegemeier et al.			
1	A177	5,554,453	09/1996	Steinfeld et al.			
le 1	A178	5,566,756	10/1996	Chaback et al.			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

**EXAMINER:** 

DATE CONSIDERED: 6

ATTY. DKT. NO. 5659-05000/TH1975

APPLICANT: Karanikas, et al.

SERIAL NO. 09/841,443

**GROUP: 3673** 

FILING DATE: April 24, 2001

U.S. PATEN	

		CEMA	U.S. TATENT	DOCUMENTS			
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
TV	A179	5,624,188	04/1997	West			
1	A180	5,656,239	08/1997	Stegemeier et al.			
	A181	5,676,212	10/1997	Kuckes			
	A182	5,862,858	01/1999	Wellington et al.			
	A183	5,899,269	05/1999	Wellington et al.			
	A184	5,968,349	10/1999	Duyvesteyn et al.			
-	A185	5,984,010	11/1999	Elias et al.			
	A186	5,985,138	11/1999	Humphreys			
	A187	5,997,214	12/1999	de Rouffignac et al.			
	A188	6,016,867	01/2000	Gregoli et al.			
	A189	6,016,868	01/2000	Gregoli et al.			
	A190	6,019,172	02/2000	Wellington et al.			
	A191	6,023,554	02/2000	Vinegar et al.			
	A192	6,056,057	05/2000	Vinegar et al.			
-	A193	6,079,499	06/2000	Mikus et al.	F	FOR	11 / -
	A194	6,085,512	07/2000	Agee et al.	•	DEO	IVED 2001
-	A195	6,094,048	07/2000	Vinegar et al.		DEC 2	2001
	A196	6,102,122	08/2000	de Rouffignac	GI	ROLLE	3600
	A197	6,102,622	08/2000	Vinegar et al.			3000
	A198	6,152,987	11/2000	Ma et al.			
	A199	6,172,124	01/2001	Wolflick et al.			
	A200	6,173,775 B1	01/2001	Elias et al.			
	A201	6,187,465	02/2001	Galloway			
	A202	Re. 30,738	09/1981	Bridges et al.			
V	A203	Re. 35,696	12/1997	Mikus			
		I	FOREIGN PATE	NT DOCUMENTS		·•····································	
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLA	ASS SUB CLAS	TRANSLAT S ON YES/NO
0	A204	121,737	03/1948	Sweden			
N	A205	123,136	11/1948	Sweden			

**EXAMINER:** 

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

ATTY. DKT. NO. 5659-05000/TH1975

SERIAL NO. 09/841,443

APPLICANT: Karanikas, et al.

**GROUP: 3673** 

FILING DATE: April 24, 2001

FOREIGN PATENT D	DOCUMENTS
------------------	-----------

EXAM. INITIALS ,	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLAT ON YES/NO		
MITALS	A206	123,137	11/1948	Sweden		CLASS	ON TES/NO		
	A207	123,138	11/1948	Sweden					
	A208	126,674	11/1949	Sweden		 	<del>                                     </del>		
	A209	1,196,594	11/1985	CA					
	A210	1,253,555	05/1989	CA					
	A211	1,288,043	08/1991	CA			_		
.	A212	156,396	01/1921	GB					
	A213	674,082	06/1952	GB					
	A214	697,189	09/1953	GB	-				
	A215	1,454,324	11/1976	GB					
	A216	1,501,310	02/1978	GB					
	A217	2,086,416	05/1982	GB					
	A218	1836876	12/1994	SU					
	A219	0570228 B1	09/1996	EP					
1 -	A220	99/01640	01/1999	WO	REC	FNE			
	A221	95/06093	03/1995	WO	DEC	EIVE 2 1 2001	<b>-</b>		
	A222	95/12746	05/1995	WO	_ 1				
	A223	95/33122	12/1995	WO	GROU	JP 36	00		
	A224	95/12742	05/1995	WO			<del>/U</del>		
<del></del>	A225	95/12743	05/1995	WO					
•	A226	95/12744	05/1995	WO					
	A227	95/12745	05/1995	WO					
		OTHER ART (In	icluding Author, T	itle, Date, Pertinent Page	es, Etc.)				
U		Some Effects of Pressure on Oi pp. 287-292.	l-Shale Retorting,"	Society of Petroleum Engi	neers Journal,	J.H. Bae, Se	ptember, 196		
1		New in situ shale-oil recovery p	process uses hot nati	ural gas; The Oil & Gas Jo	urnal; May 16	, 1966, p. 15	1.		
	A230	0 Evaluation of Downhole Electric Impedance Heating Systems for Paraffin Control in Oil Wells; Industry Applications							

A230 Evaluation of Downhole Electric Impedance Heating Systems for Paraffin Control in Oil Wells; Industry Applications Society 37<sup>th</sup> Annual Petroleum and Chemical Industry Conference; The Institute of Electrical and Electronics Enginee Inc., Bosch et al., September 1990, pp. 223-227.

A231 New System Stops Paraffin Build-up; Petroleum Engineer, Eastlund et al., January 1989, (3 pages).

A232 Oil Shale Retorting: Effects of Particle Size and Heating Rate on Oil Evolution and Intraparticle Oil Degradation;

Campbell et al. In Situ 2(1), 1978, pp. 1-47.

**EXAMINER:** 

DATE CONSIDERED:

ERED: (1)

EXAMINER: Initial of citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own

DEC 2 0 2001

ATTY. DKT. NO. 5659-05000/TH1075

APPLICANT: Karanikas, et al.

.

SERIAL NO. 09/841,443

GROUP: 3673

FILING DATE: April 24, 2001

			OFFICE ART (Including Author, Title, Date, Pertinent Pages, Etc.)
	/	A233	The Potential For In Situ Retorting of Oil Shale In the Piceance Creek Basin of Northwestern Colorado; Dougan et al
1	1		Quarterly of the Colorado School of Mines, pp. 57-72.
7		A234	Retoring Oil Shale Underground-Problems & Possibilities; B.F. Grant, Qtly of Colorado School of Mines, pp 39-46.
	T	A235	Molecular Mechanism of Oil Shale Pyrolysis in Nitrogen and Hydrogen Atmospheres, Hershkowitz et al.;
	$\Box$		Geochemistry and Chemistry of Oil Shales, American Chemical Society, 5/1983 pp. 301-316.
		A236	The Characteristics of a Low Temperature in Situ Shale Oil; George Richard Hill & Paul Dougan, Quarterly of the
			Colorado School of Mines, 1967; pp. 75-90.
- 1		A237	Direct Production Of A Low Pour Point High Gravity Shale Oil; Hill et al., I & EC Product Research and
		A 229	Development, 6(1), March 1967; pp. 52-59.  Refining Of Swedich Shele Oil L. Lyndoviet, pp. 621-627.
		A238	Refining Of Swedish Shale Oil, L. Lundquist, pp. 621-627.
		A239	The Benefits of In Situ Upgrading Reactions to the Integrated Operations of the Orinoco Heavy-Oil Fields and Downstream Facilities, Myron Kuhlman, Society of Petroleum Engineers, June 2000; pp. 1-14.
		A240	Monitoring Oil Shale Retorts by Off-Gas Alkene/Alkane Ratios, John H. Raley, Fuel, Vol. 59, June 1980, pp. 419-42
+		A241	The Shale Oil Question, Old and New Viewpoints, A Lecture in the Engineering Science Academy, Dr. Fredrik Ljungstrom, February 23, 1950, published in Teknisk Trdskrift, January 1951 p. 33-40.
		A242	Underground Shale Oil Pyrolysis According to the Ljungstroem Method; Svenska Skifferolje Aktiebolaget (Swedish Shale Oil Corp.), IVA, Vol. 24, 1953, No. 3, pp. 118-123.
		A243	Kinetics of Low-Temperature Pyrolysis of Oil Shale by the IITRI RF Process, Sresty et al.; 15th Oil Shale Symposium
			Colorado School of Mines, April 1982 pp. 1-13.
			Bureau of Mines Oil-Shale Research, H.M. Thorne, Quarterly of the Colorado School of Mines, pp. 77-90.
		A245	Application of a Microretort to Problems in Shale Pyrolysis, A. W. Weitkamp & L.C. Gutberlet, Ind. Eng. Chem. Process Des. Develop. Vol. 9, No. 3, 1970, pp. 386-395.
•		A246	Process Des. Develop. Vol. 9, No. 3, 1970, pp. 386-395.  Oil Shale, Yen et al., Developments in Petroleum Science 5, 1976, pp. 187-189, 1970.
		A247	The Composition of Green River Shale Oils, Glenn L. Cook, et al., United Nations Symposium on the Development and Utilization of Oil Shale Resources, 1968, pp. 1-23.
		A248	High-Pressure Pyrolysis of Green River Oil Shale, Burnham et al., Geochemist Chapter of Oil Shales, American Chemical Society, 1983, pp. 335-351.
		A249	Geochemistry and Pyrolysis of Oil Shales, Tissot et al., Geochemistry and Chemistry of Oil Shales, American Chemic Society, 1983, pp. 1-11.
		A250	A Possible Mechanism of Alkene/Alkane Production, Burnham et al., Oil Shale, Tar Sands, and Related Materials, American Chemical Society, 1981, pp. 79-92.
		A251	The Ljungstroem In-Situ Method of Shale Oil Recovery, G. Salomonsson, Oil Shale and Cannel Coal, Vol. 2, Proceedings of the Second Oil Shale and Cannel Coal Conference, Institute of Petroleum, 1951, London, pp. 260-280
		A252	Developments in Technology for Green River Oil Shale, G.U. Dinneen, United Nations Symposium on the Development and Utilization of Oil Shale Resources, Laramie Petroleum Research Center, Bureau of Mines, 1968, pp.1-20.
		A253	The Thermal and Structural Properties of a Hanna Basin Coal, R.E. Glass, Transactions of the ASME, Vol. 106, June 1984, pp. 266-271.
		A254	The Thermal and Structural Properties of the Coal in the Big Coal Seam, R.E. Glass, In Situ, 8(2), 1984, pp. 193-205.
		A255	Investigation of the Temperature Variation of the Thermal Conductivity and Thermal Diffusivity of Coal, Badzioch et al., Fuel, Vol. 43, No. 4, July 1964, pp. 267-280.
<b>A</b> /		A256	On the Mechanism of Kerogen Pyrolysis, Alan K. Burnham & James A. Happe, January 10, 1984 (17 pages).
X		B1	Proposed Field Test of the Lins Method Thermal Oil Recovery Process in Athabasca McMurray Tar Sands, Husky Oil Company.

**EXAMINER:** 

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent own